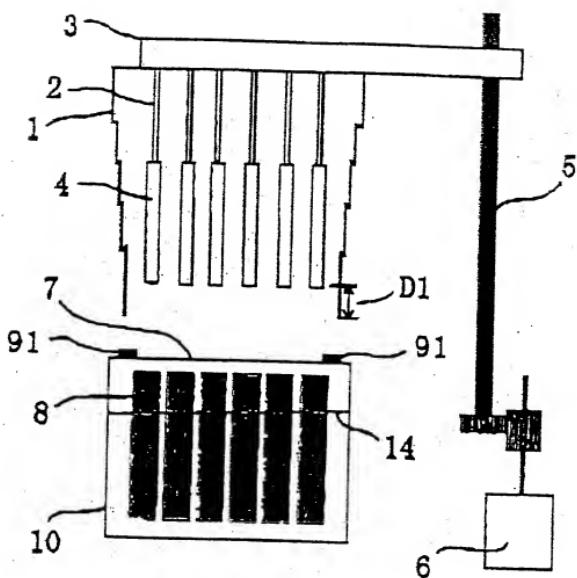


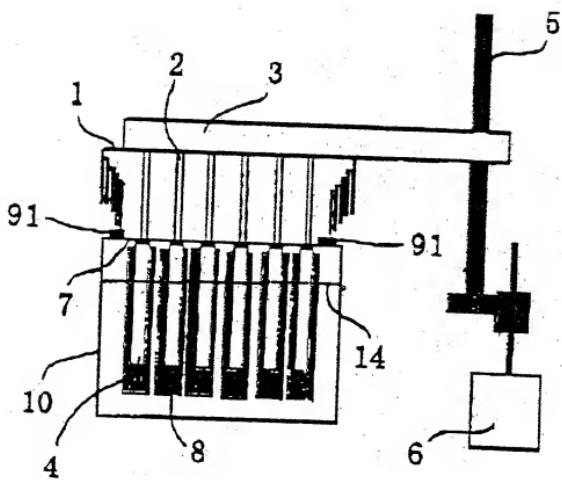
A-02014 FIGS. 1A-16

FIG. 1A



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FIG. 1B



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FIG. 1C

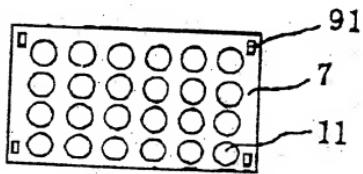
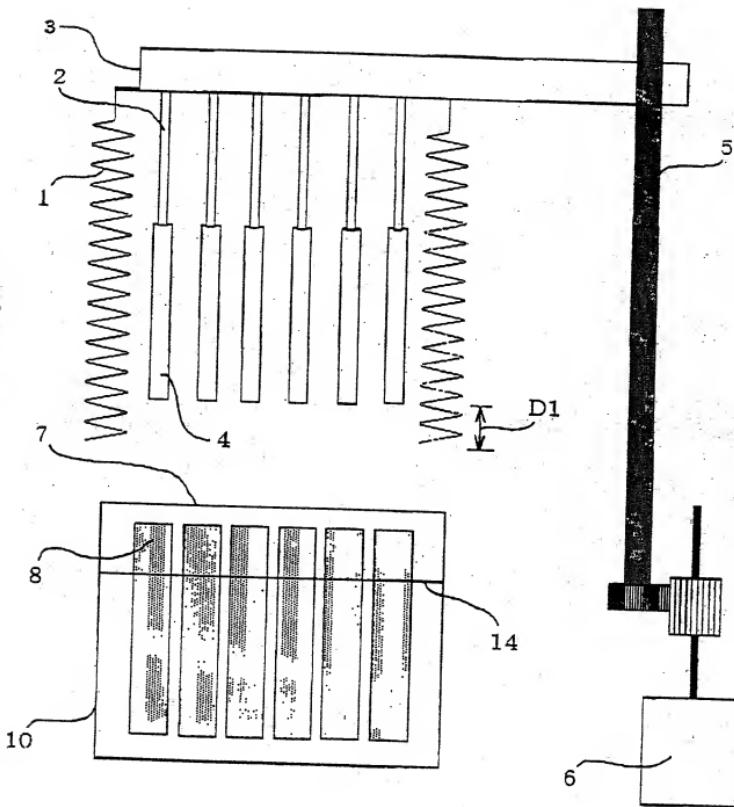


FIG. 2



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FIG. 3A

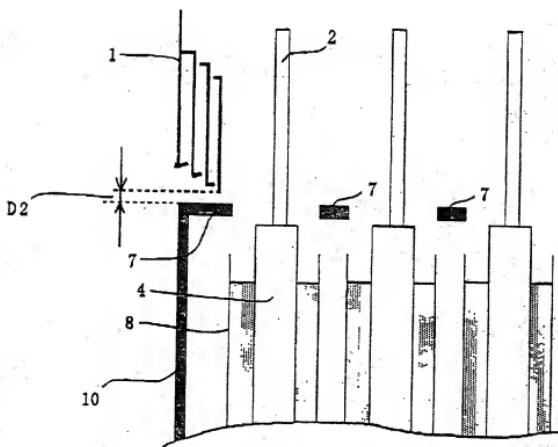
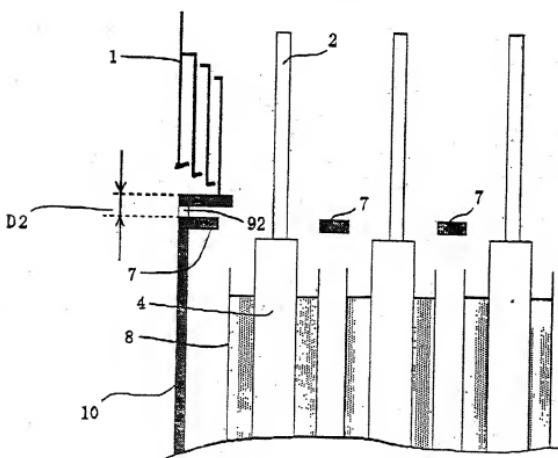


FIG. 3B



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FIG. 4

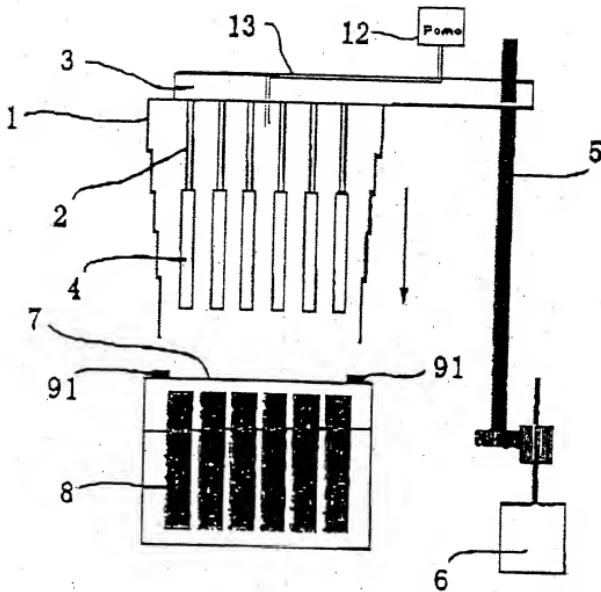
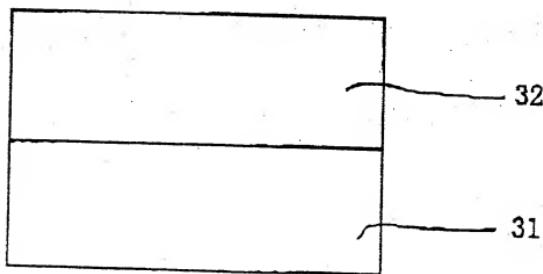


FIG. 5



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FIG. 6

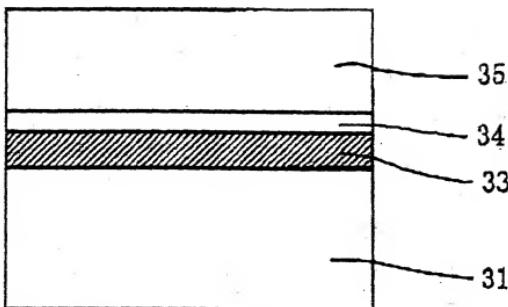
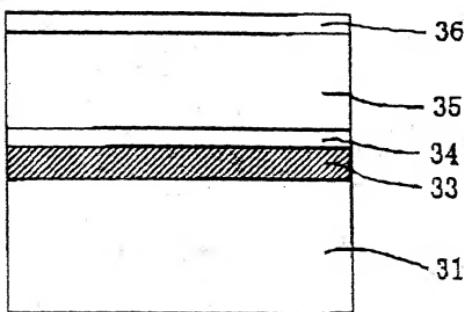
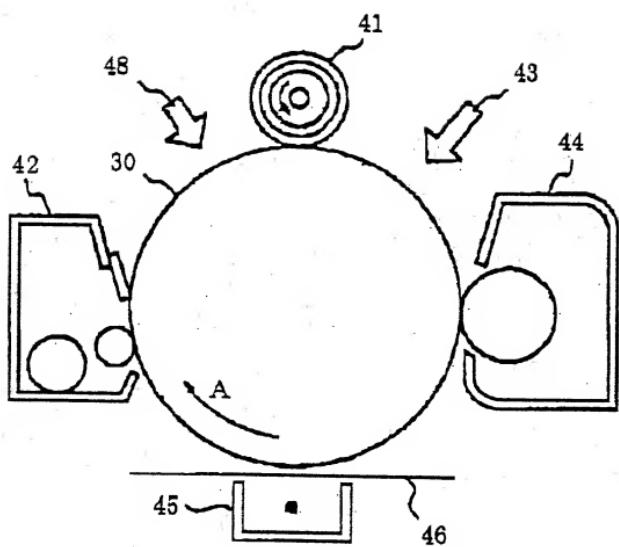


FIG. 7



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FIG. 8



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FIG. 9

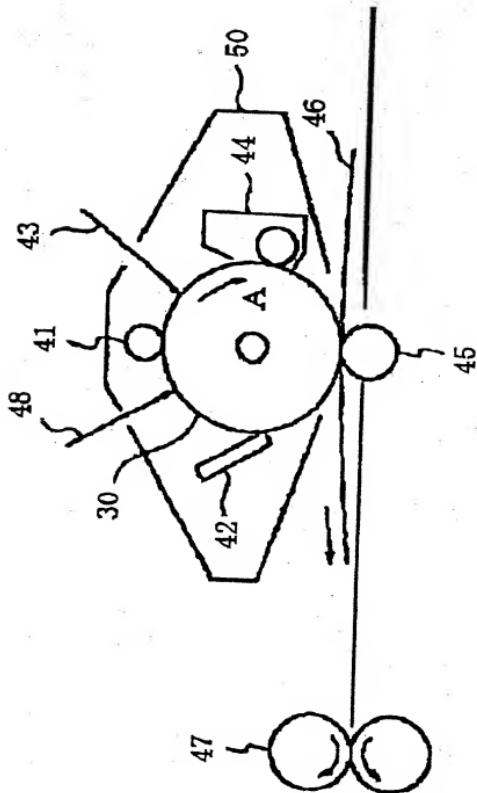


FIG. 10

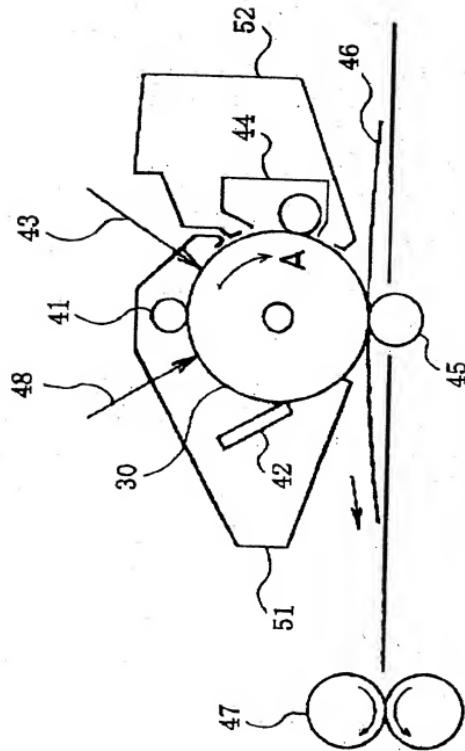
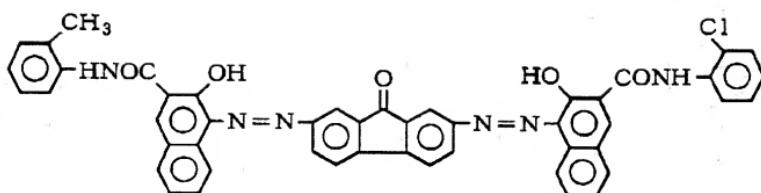


FIG. 11



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FIG. 12

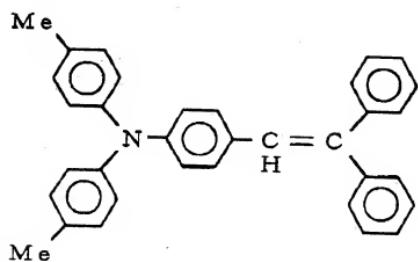


FIG. 13

	D1/mm	D2/mm
EXAMPLE 1-1	0	0
EXAMPLE 1-2	20	0
EXAMPLE 1-3	50	0
EXAMPLE 1-4	100	0
EXAMPLE 1-5	20	5
EXAMPLE 1-6	20	25
EXAMPLE 1-7	20	50
EXAMPLE 1-8	20	60
COMPARATIVE EXAMPLE 1-1	-10	0
COMPARATIVE EXAMPLE 1-2	-30	0

FIG. 14

	DIFFERENCE R (μm) BETWEEN MAX. & MIN.	THICKNESS DISTANCE FROM TOP	SLOPE IN AXIAL DIRECTION	IMAGE ESTIMATION	
				DEGREE SLOPE (50mm ~) FILM THICKNESS (290mm)	HALFTONE IMAGE
EXAMPLE 1-1	0.15	0.45	1.23	3.2 μm	○
EXAMPLE 1-2	0.11	0.39	0.53	3.1 μm	○
EXAMPLE 1-3	0.09	0.33	0.22	3.5 μm	○
EXAMPLE 1-4	0.08	0.15	0.28	3.4 μm	○
EXAMPLE 1-5	0.09	0.12	0.23	No slope	○
EXAMPLE 1-6	0.12	0.19	0.25	No slope	○
EXAMPLE 1-7	0.43	0.33	0.28	No slope	○
EXAMPLE 1-8	1.29	0.75	0.25	No slope	○
COMPARATIVE EXAMPLE 1-1	0.13	0.73	2.3	SLOPE IN AXIAL DIRECTION	8.2 μm SHEAR AT TOP IRREGULAR DENSITY AT BOTTOM
COMPARATIVE EXAMPLE 1-2	0.22	1.58	3.1	SLOPE IN AXIAL DIRECTION	9.1 μm SHEAR AT TOP IRREGULAR DENSITY FROM CENTER TO BOTTOM

FIG. 15

DISTANCE FROM TOP	THICKNESS DISTRIBUTION	DEGREE OF SLOPE	IMAGE ESTIMATION	
			HALFTONE IMAGE	
			FULL THICKNESS (50mm ~ 290mm)	TRIMMED IMAGE
EXAMPLE 2-1	0.35	0.55	2.16 SLOPE IN AXIAL DIRECTION	5.2 μ m ○ /REGULAR DENSITY AT BOTTOM
EXAMPLE 2-2	0.44	0.57	1.62 SLOPE IN AXIAL DIRECTION	4.8 μ m ○ /LIGHT IRREGULAR DENSITY AT BOTTOM
EXAMPLE 2-3	0.47	0.62	1.58 SLOPE IN AXIAL DIRECTION	4.6 μ m SHEAR AT TOP /LIGHT IRREGULAR DENSITY AT BOTTOM
EXAMPLE 2-4	0.53	0.57	1.55 SLOPE IN AXIAL DIRECTION	4.9 μ m ○ /LIGHT IRREGULAR DENSITY AT BOTTOM
EXAMPLE 2-5	0.44	0.58	1.73 NO SLOPE	2.2 μ m ○ /LIGHT IRREGULAR DENSITY AT BOTTOM
EXAMPLE 2-6	1.59	0.73	0.25 NO SLOPE	2.3 μ m ○ /LIGHT IRREGULAR DENSITY AT BOTTOM
EXAMPLE 2-7	1.73	0.33	0.28 NO SLOPE	1.9 μ m ○ /LIGHT IRREGULAR DENSITY AT BOTTOM
EXAMPLE 2-8	2.5	1.2	0.53 NO SLOPE	2.7 μ m ○ /HEAVY IRREGULAR DENSITY FROM TOP TO CENTER

FIG. 16

		1 HAGE ESTIMATION	
		DEGREE OF SLOPE	1 HAGE
		THICKNESS DISTRIBUTION (50mm ~ 290mm)	ESTIMATION
		THICKNESS DISTRIBUTION (50mm ~ 290mm)	HALFTONE HAGE
EXAMPLE	3-1	0.13 0.23 1.23	2.9 μ m
EXAMPLE	3-2	0.11 0.22 0.49	3.1 μ m
EXAMPLE	3-3	0.11 0.17 0.22	2.8 μ m
EXAMPLE	3-4	0.12 0.12 0.28	2.9 μ m
EXAMPLE	3-5	0.09 0.16 0.3	no slope
EXAMPLE	3-6	0.1 0.22 0.29	0.9 μ m
EXAMPLE	3-7	0.38 0.35 0.3	0.7 μ m
EXAMPLE	3-8	0.43 0.37 0.25	0.6 μ m
			0.7 μ m
			0